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(56) Documents Cited

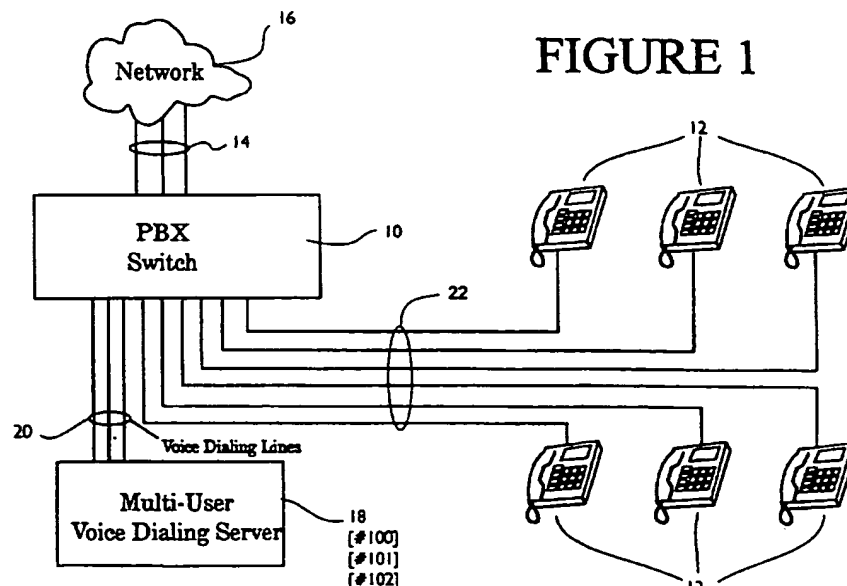
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(58) Field of Search

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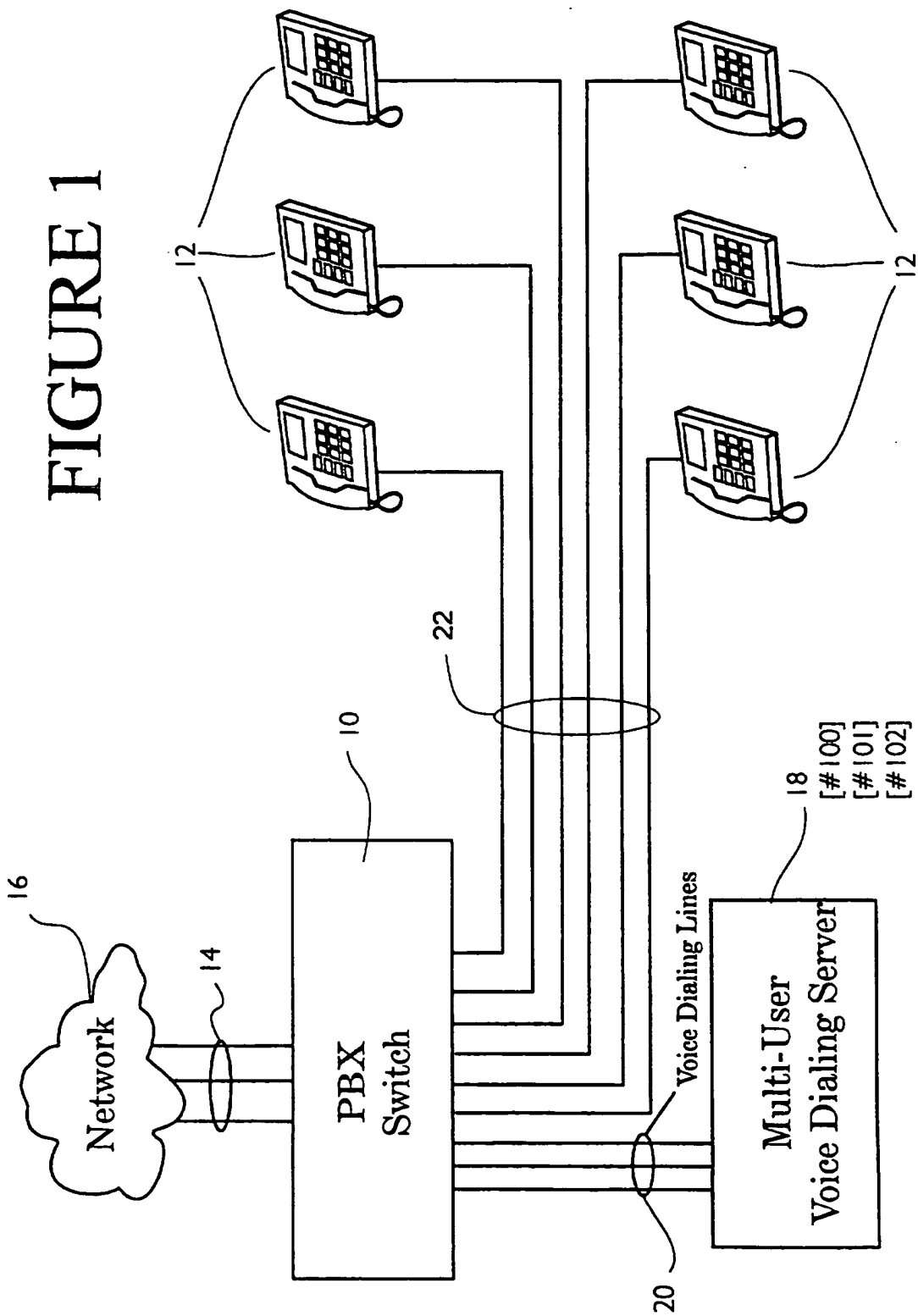
(54) Voice dialling server for branch exchange telephone systems

(57) The voice dialling server plugs into one or more unused extensions of a branch exchange system to provide each of the users on the system with voice dialling services. To use the system a user simply dials the extension to which the server is attached. The server then prompts the user to supply the name of a party to be called. The name is then looked up in a telephone number dictionary unique to that user. The system then places the telephone call by sending commands to the branch exchange system that simulate the operations a user would perform to connect to an outside line or inside extension and then place the call. The server incorporates a speech processing module having a multistage word recognizer that represents speech in terms of high phoneme similarity values. This representation is highly compact, allowing the word recognizer to perform the recognizer and fine match stages with far less processor overhead than frame-by-frame speech recognizers.



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FIGURE 1



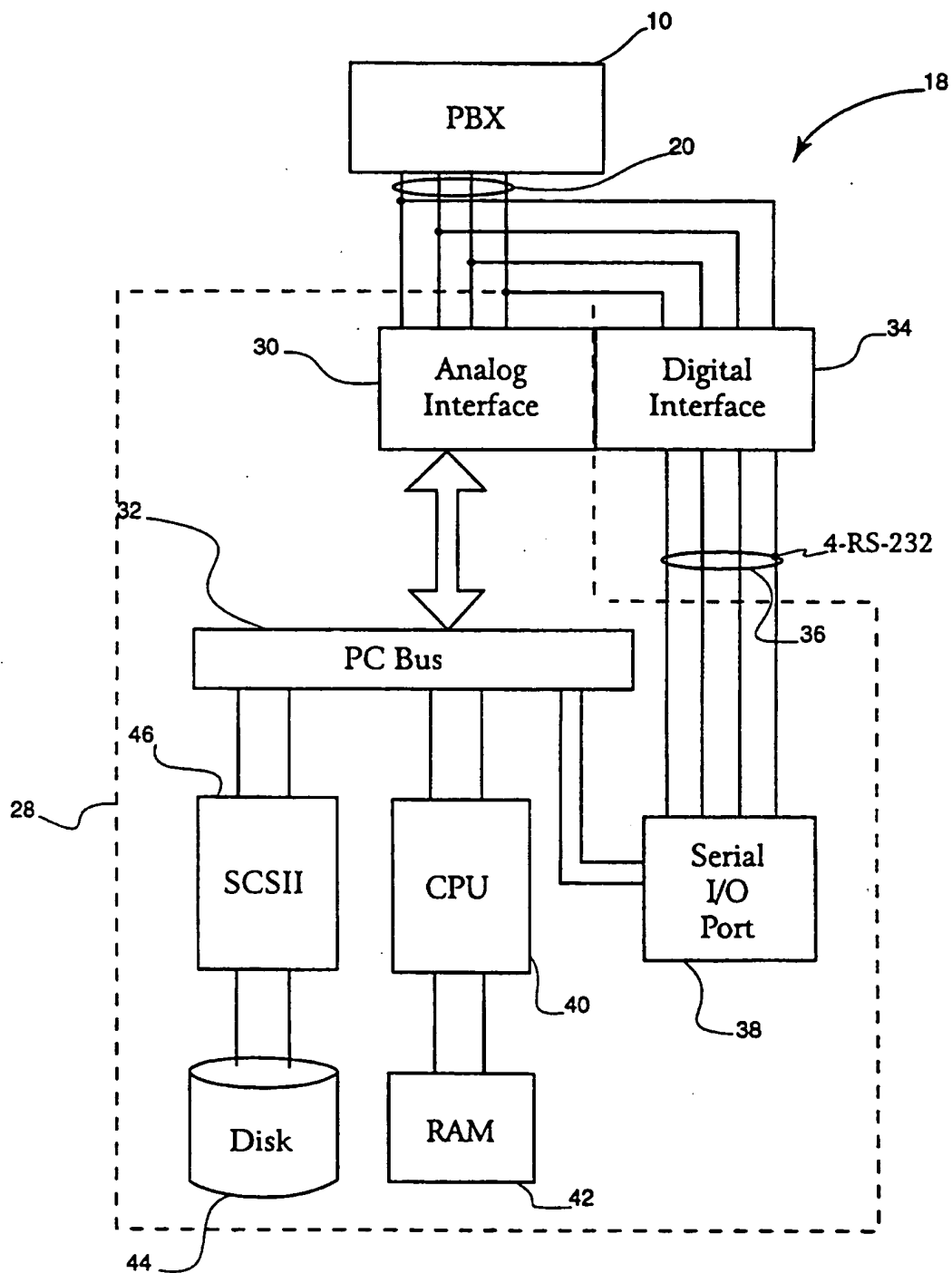


Figure 2

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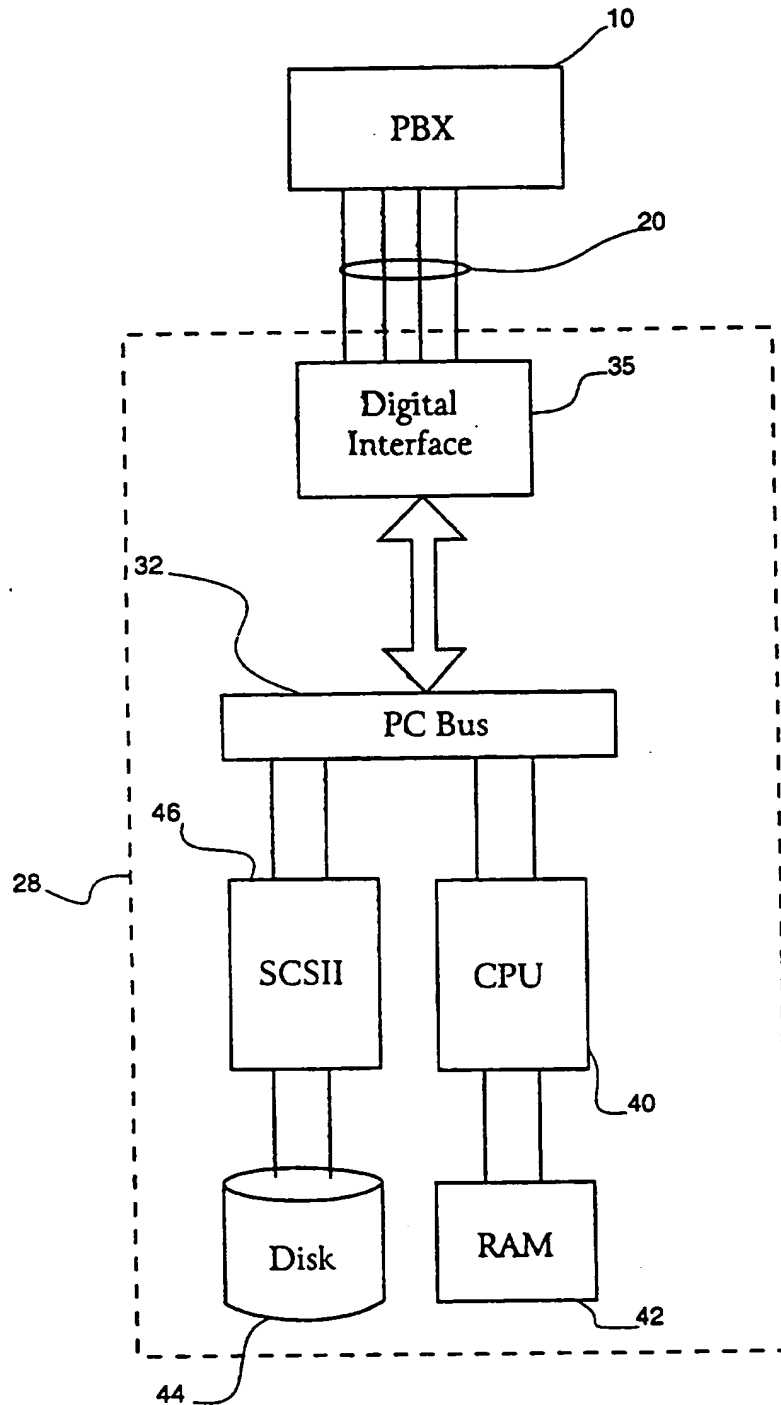


Figure 3

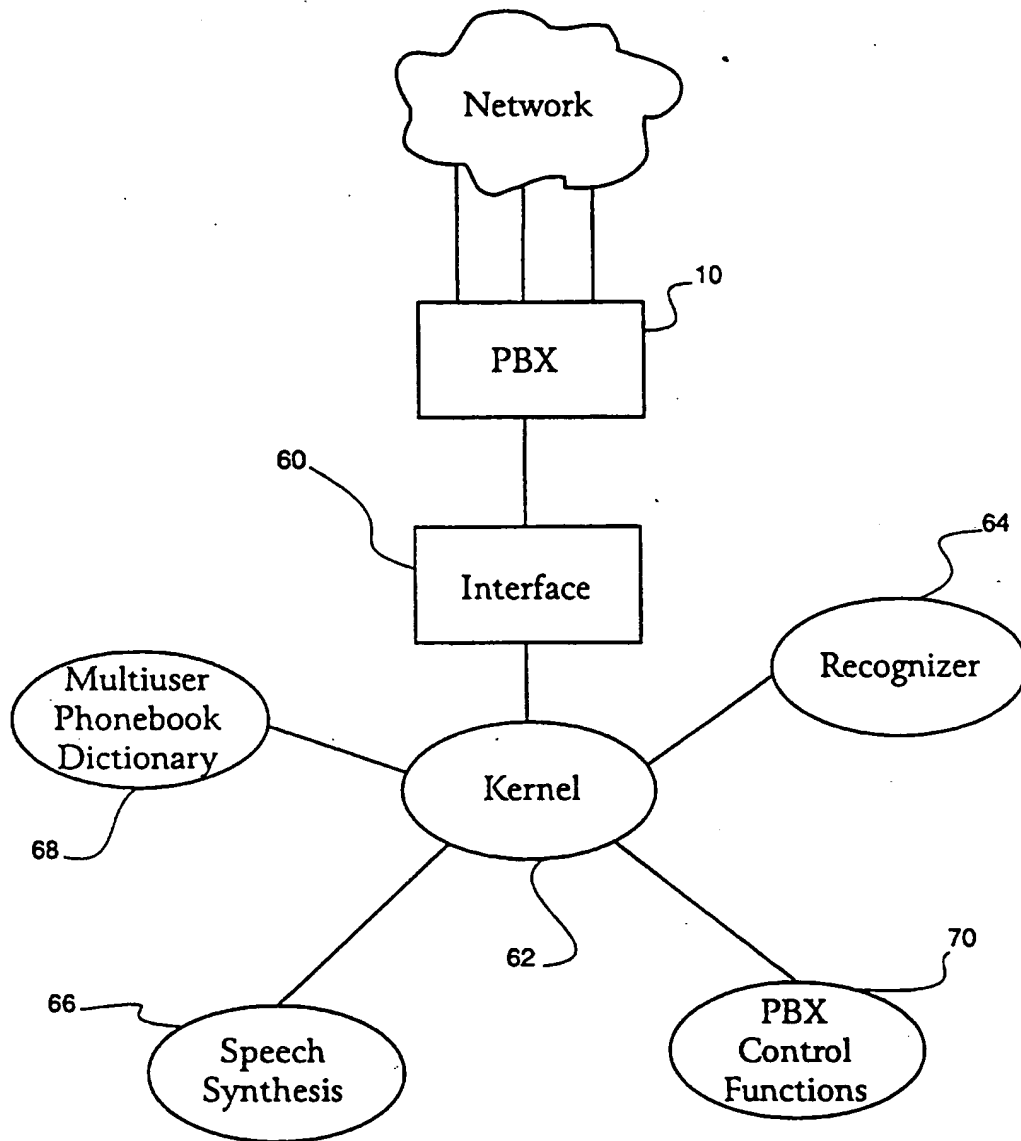
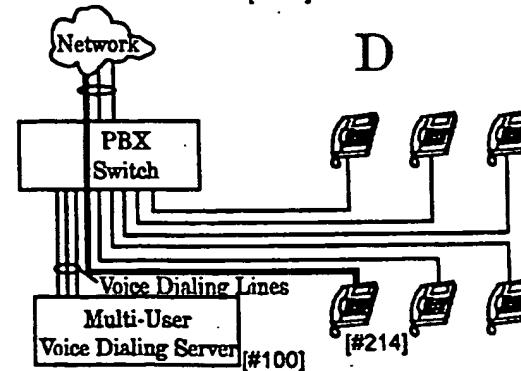
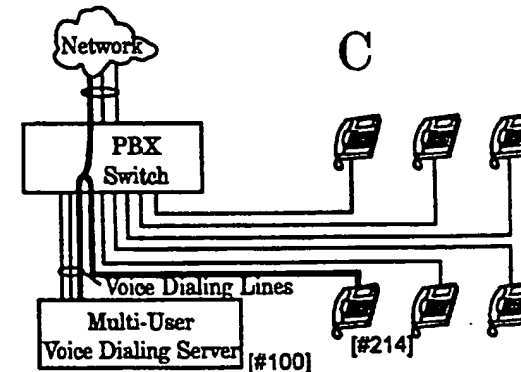
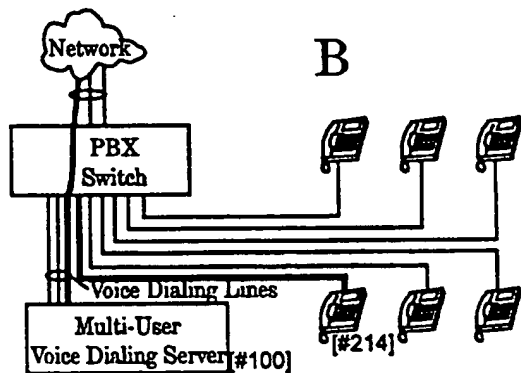
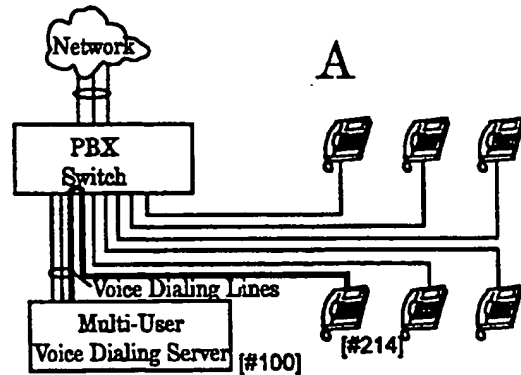
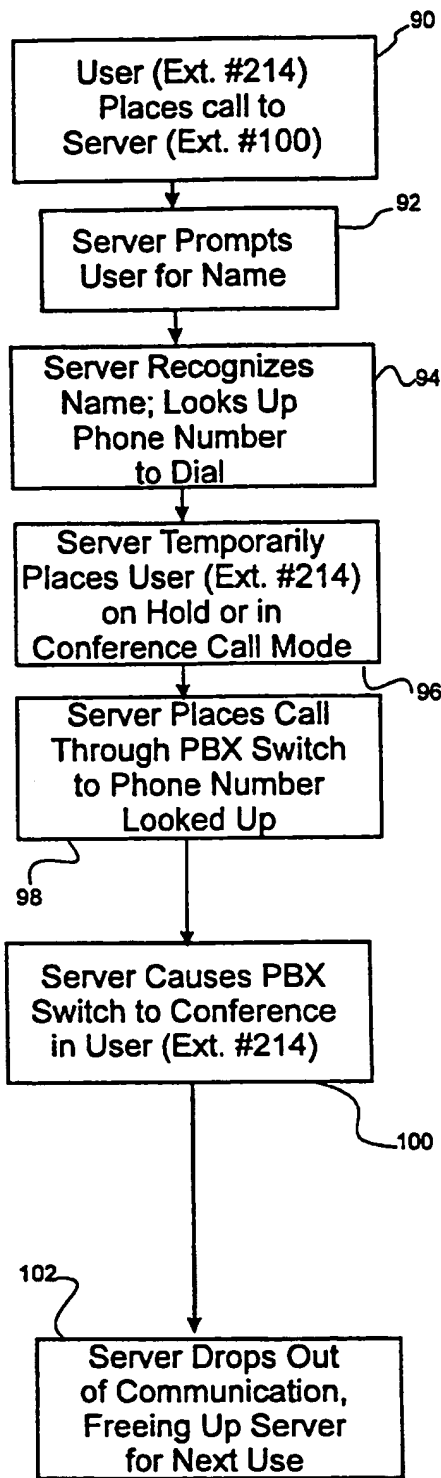


Figure 4

FIGURE 5



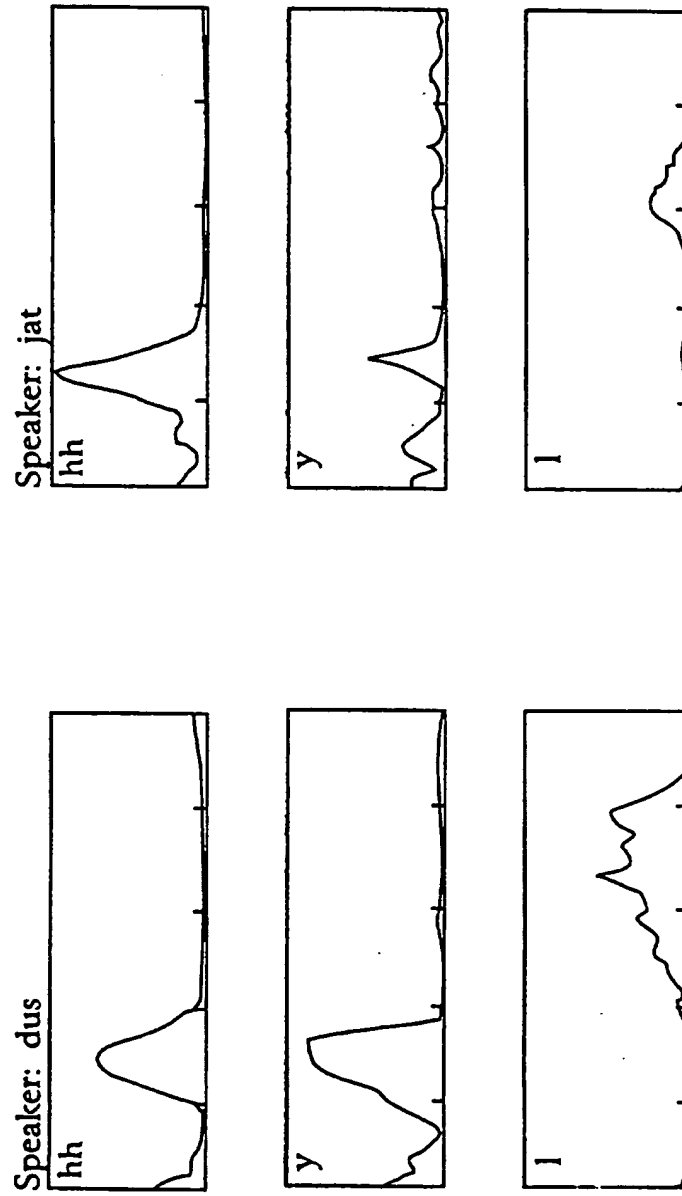


Figure 6

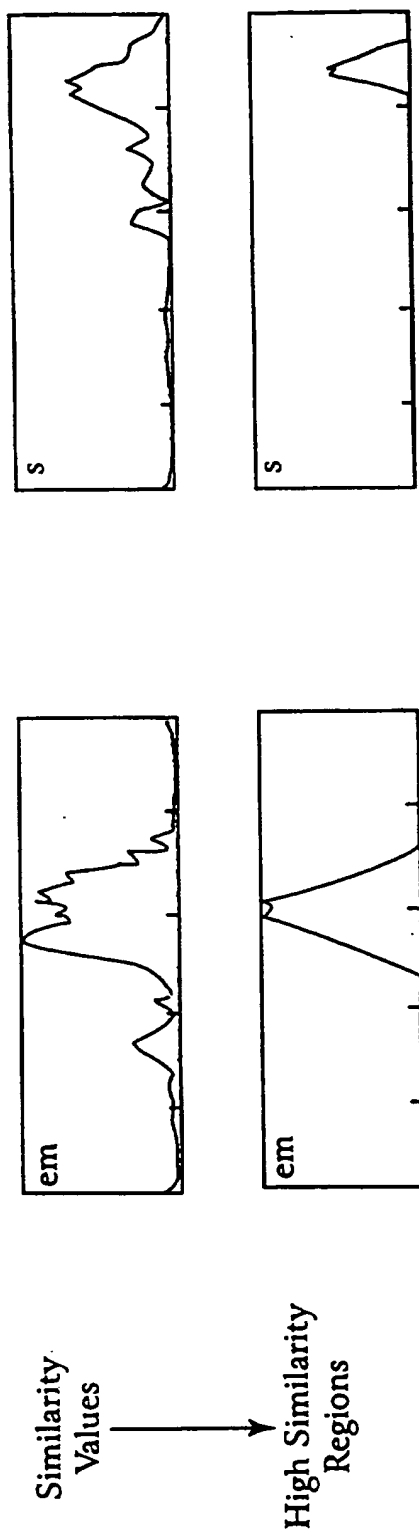


Figure 7

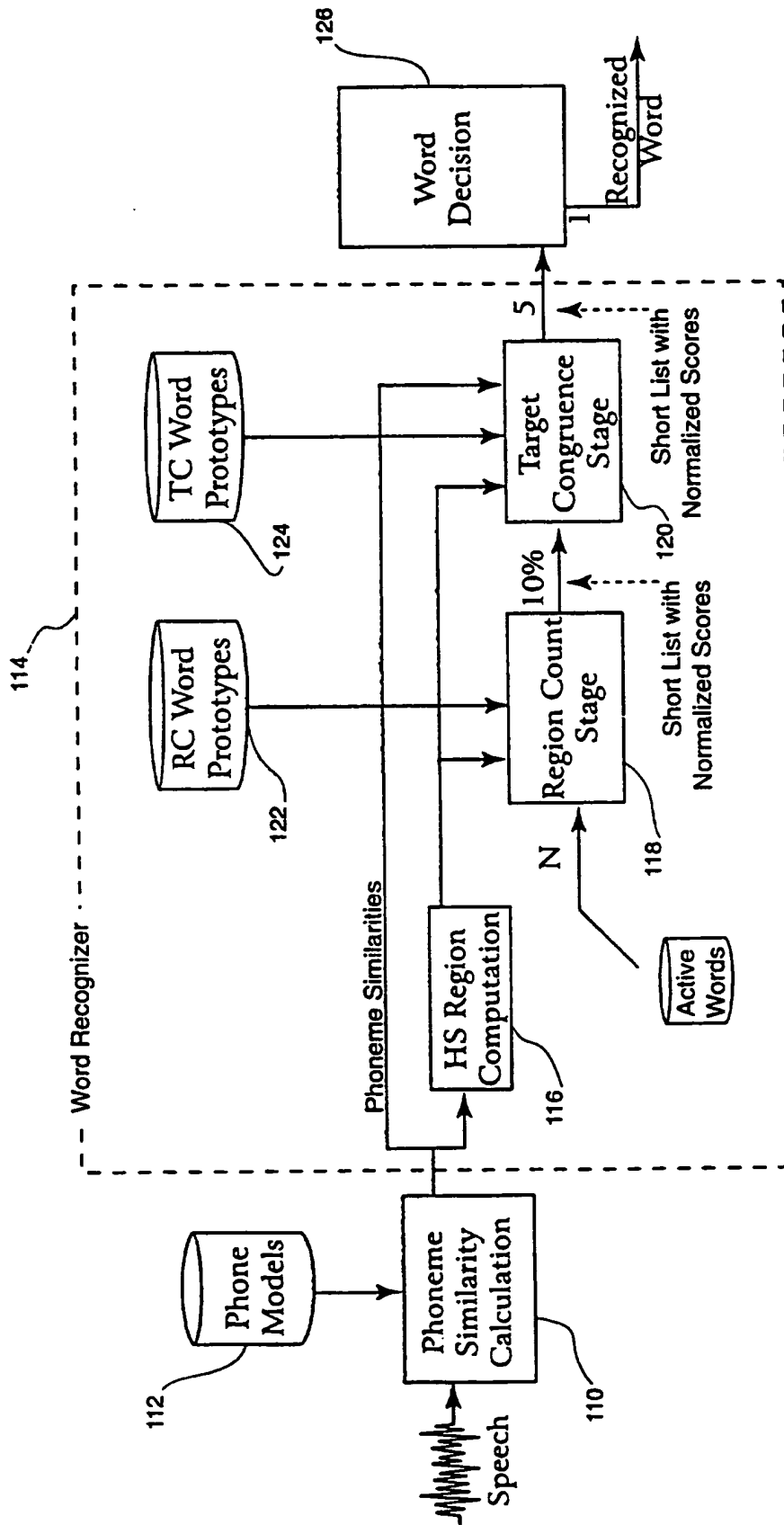


Figure 8

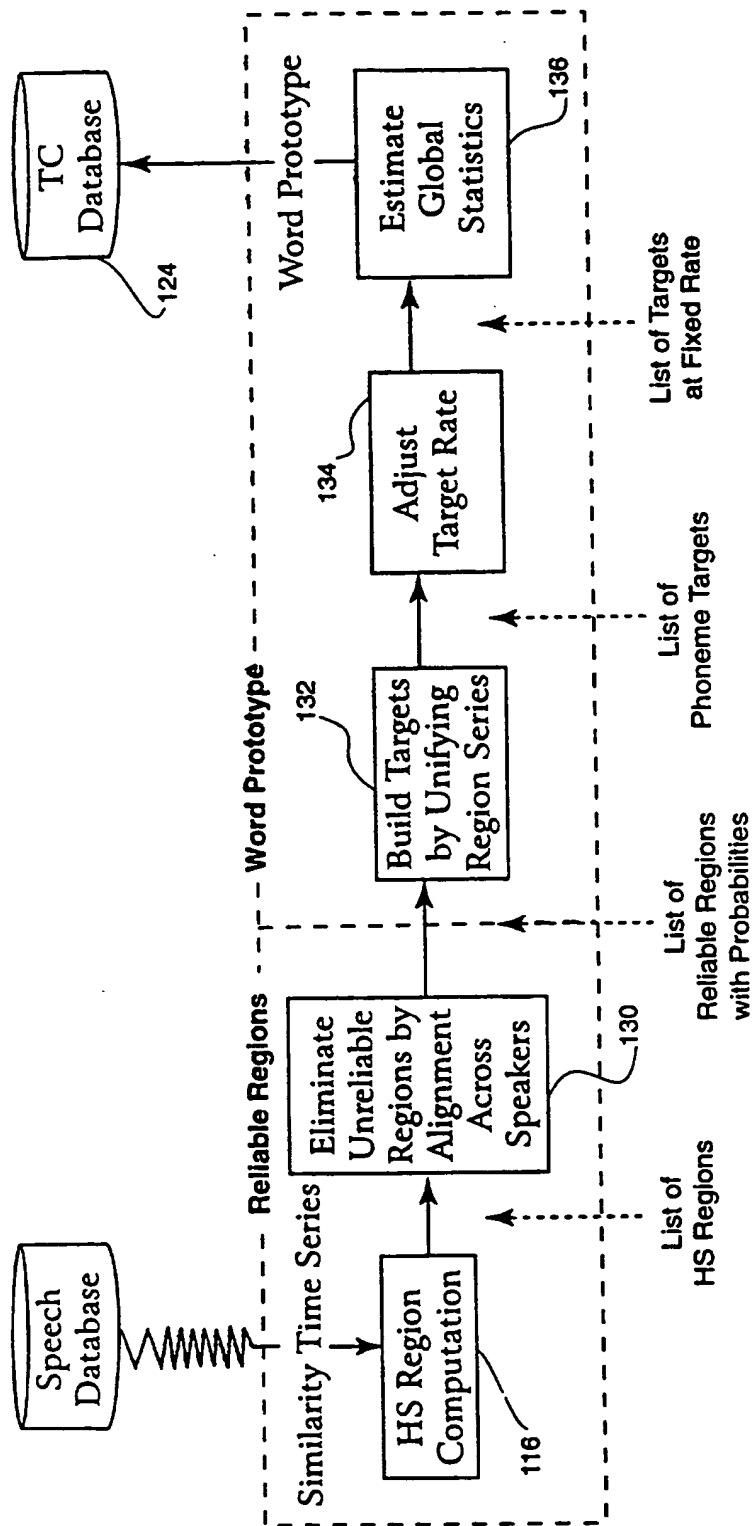


Figure 9